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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/658,623

09/09/2003

Wei Fan

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2548

28211

7590

06/29/2006

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EXAMINER

DAVIS, GEORGE B

ART UNIT

PAPER NUMBER

2129

DATE MAILED: 06/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/658,623

Applicant(s)

FAN ET AL.

Examiner

George Davis

Art Unit

2129

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 January 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1, 8, 14 and 20 recite the limitation "said system" in lines 3, 4 and 7.

Claims 7, 13, 19 and 26 recite the limitation "said system" in line 2.

Claims 1, 8, 14 and 20 recite the limitation "said training process" in lines 9 or 10.

Claims 2 and 15 recite the limitation "said process of creating a model" in line 1.

Claims 2, 15 and 21 recite the limitation "said features for normal system operations" in line 3.

Claims 5, 11 and 24 recite the limitation "the likelihood" in line 2.

Claim 8 recites the limitation "said process of creating a model" in line 10.

Claim 8 recites the limitation "said features for normal system operations" in lines 11 and 12.

Claim 14 recites the limitation "the likelihood" in line 11.

Claims 7, 13, 19 and 26 recite the limitation "said system" in line 2.

Claims 4, 10, 17 and 23 recite the limitation "said normal system" in line 1.

Claims 7, 13, 19 and 26 recite the limitation "said process of identifying abnormal actions" in line 1.

There are insufficient antecedent basis for these limitations in the claim.

Claims 1, 8, 14 and 20, the phrase "performing training by calculating anomaly scores" render the claimed invention indefinite because "calculating" does not reflect a training performance but it reflects a determining performance.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

The language of the claims are directed merely to an abstract idea that has no limitation to a practical application which produces a concrete, useful, and tangible result.

Claims 1-26 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 1, 8, 14 and 20, the step of "automatically identifying abnormal actions" fails to render the claims statutory because it recites not a tangible result by not specifying what happened after the identifying method step. Claims 7, 13, 19 and 26, the step of "comparing said anomaly score for each of said features with said threshold to determine whether each anomaly score exceeds said threshold" fails to render the claims statutory because it recites not a tangible result by not specifying what happened after "comparing" and "determine".

Art Unit: 2129

In regard to claim 20, the Federal Circuit also recognizes that the fact that a nonstatutory method is carried out on a programmed computer (machine) does not make the process claims statutory. Grams, 888 F. 2d at 841, 12 USPQ2d at 1829 (claim 16 ruled nonstatutory even though it was a computer-implemented process).

Therefore, the claimed invention is directed to non-statutory subject matter.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Davis whose telephone number is (571) 272-3683. The examiner can normally be reached on Monday through Friday from 10:00 am to 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Vincent, can be reached on (571) 272-3080. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-3800.

June 24, 2006



GEORGE B. DAVIS

PRIMARY PATENT EXAMINER